Berkeley Lab Business Planning Meeting Office of Science, U.S. Department of Energy May 3, 2005

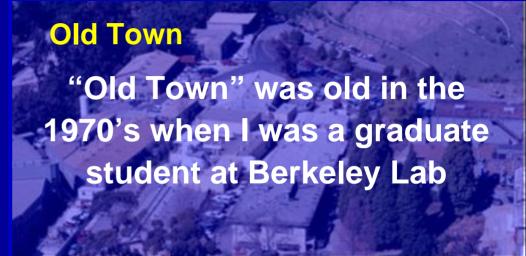
- I. Current Business (1-9)
- II. Major Initiatives and Strategies (10-25)
- III. Financial Outlook (26-27)
- IV. Laboratory and the Community (28-29)
- V. Facility and Infrastructure Needs (30-32)
- VI. Management (33-37)
- VII. Summary and Critical Risks (38-40)

Office and Laboratory Space Are Limited and Replacement Is Required

- Insufficient space
- Seismic safety needs
- User support needs
- Obsolete buildings
- Growing inventory of condemned buildings

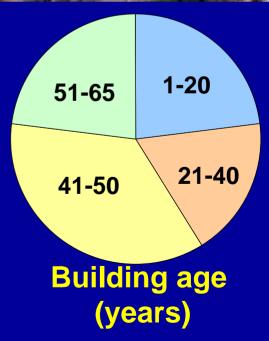


Bevatron deconstruction





Building 74: seismic safety and functionality



Leases are the Near-Term Step for Addressing Space Needs

- New space for integrated biology at Potter Street
 - Genomics:GTL; synthetic biology; computational biology; low-dose radiation biology; integrative cancer biology
 - Joint lease with UC Berkeley (72,000 gross square feet)
- Total lab and office leases in Berkeley and Oakland: 189,000 gross square feet; cost \$4.9M per year
- June 2005: 15% of Laboratory staff will be in leased space



Partner with UC to Create Dual-Use Buildings and a Berkeley Lab Guest House

- UC borrowing capacity for lowcost financing of UC constructed buildings
 - -DOE will allow UC to use 501.3(c) financing
 - UC Berkeley is proposing to apply \$40M to partially finance two dual-use buildings
- Berkeley Lab will service the debt primarily by finding efficiencies, reduced lease costs and increases in overall Laboratory budget



Computational Research and Theory Building (\$90M)



Nano Physics Research Laboratory (\$91M)

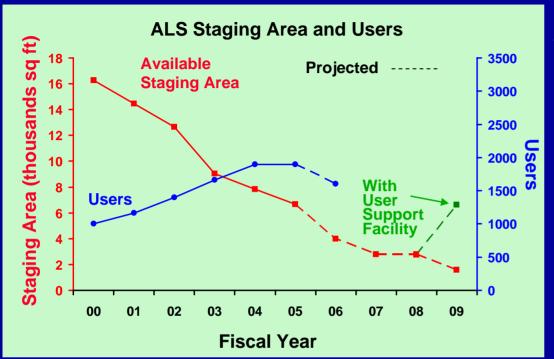


Berkeley Lab Guest House (\$7.5M)





Major Risk: Inadequate User Support and Staging Area



 Meet the needs of a growing user community and alleviate beamline growth into current staging areas

Priority Need: User Support Building Cost: \$22M

- Current ALS staging area:
 140 square feet per beamline
- 2009 ALS staging area will be 30 square feet per beamline
- Advanced Photon Source has 340 square feet per beamline



Replaces a seismically "very poor"
Building 10

Major Risk: Seismic Event Threatens Research in 14 Buildings Constructed 1944 to 1964

 New seismic safety analysis indicates structural problems with older buildings

 Approximately 50% of buildings fully characterized; 16 problem buildings

 Demolition required for two buildings (25, 50D) Cost: ~\$2.3M

Possible demolition for six buildings(10, 17, 25A, 44, 50C, 71A) Cost: ~\$3.2M

Rehabilitation needed for eight buildings
 (50, 71, 72, 74, 76, 6, 54, 64) Cost: ~\$34.5M

 Characterization of all buildings to be completed in FY 2007



Scientific and Operational Talent

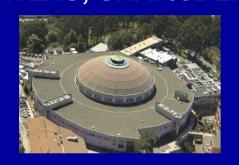
UC joint appointments; Control G&A costs

Tools to Serve the Science Community User support; ALS; NERSC; JGI; TEAM; ATLAS; SNAP/JDEM



Facilities

DOE investments
User Support Building;
Building 51 & Bevatron



Critical Factors for Berkeley Lab Mission Success



Open Research Environment
Site access;
Information Technology



Safety Culture
Structurally safe buildings;
Integrated Safety Management

